Freeform Search

Database: US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Term: L13 NOT L11

Display: 20 **Documents in Display Format:** CIT **Starting with Number** 1

Generate: Hit List (Hit Count) Side by Side Image

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Search History

DATE: Monday, January 22, 2007 Purge Queries | Printable Copy | Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT; PLUR=YES; OP=OR		
L14	L13 NOT L11	54	L14
L13	L12 and (propellant or HFA or HFC or hydrofluoro$8)	94	L13
L12	L10 and ((microparticle or microstructure or particle) same (suspension or dispersion))	145	L12
	DB=USPT; PLUR=YES; OP=OR		
L11	L10 and ((microparticle or microstructure or particle) same (suspension or dispersion))	47	L11
	DB=PGPB,USPT; PLUR=YES; OP=OR		
L10	L9 and ((porous or perforated) same (microparticle or microstructure or particle))	216	L10
L9	424/46.ccls. or 424/45.ccls.	2860	L9
	DB=USPT; PLUR=YES; OP=OR		
L8	5192528.pn.	1	L8
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L7	L6 same (propellant or HFA or HFC or hydrofluoro$8)	101	L7

L6	(("perforated microstructure" or (porous near6 particle) or perticle or microstructure or microparticle) same (suspension or dispersion))	13654	L6
DB=PGPB,USPT; PLUR=YES; OP=OR			
L5	((Alexey near Kabalnov) AND @pd>20060503)	7	L5
L4	((Thomas near Tarara) AND @pd>20060503)	4	L4
L3	((Luis near Dellamary) AND @pd>20060503)	4	L3
L2	((Ernest near Schutt) AND @pd>20060503)	4	L2
L1	((Jeffry near Weers) AND @pd>20060503)	3	L1

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 19:14:54 ON 22 JAN 2007)

FILE 'CAPLUS, USPATFULL, MEDLINE' ENTERED AT 19:18:14 ON 22 JAN 2007

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L1         43039 S (POROUS OR PERFORATED) (P) (MICROSTRUCTURE OR PARTICLE OR MIC
L2         14807 S (POROUS OR PERFORATED) (8A) (MICROSTRUCTURE OR PARTICLE OR MI
L3          1020 S L2 (P) (DISPERSION OR SUSPENSION)
L4            10 S L3 (P) (HFA OR HFC OR HYDROFLUORO?)
L5             9 DUPLICATE REMOVE L4 (1 DUPLICATE REMOVED)
L6             9 FOCUS L5 1-

=> d que l1
L1         43039 SEA (POROUS OR PERFORATED) (P) (MICROSTRUCTURE OR PARTICLE OR
                 MICROPARTICLE)


=> d que l2
L2         14807 SEA (POROUS OR PERFORATED) (8A) (MICROSTRUCTURE OR PARTICLE OR
                 MICROPARTICLE)
```

L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
TI Hollow porous particles in metered dose inhalers
AB Purpose. To assess the phys. stability and aerosol characteristics of suspensions of hollow porous microspheres (PulmoSpheres) in HFA -134a. Methods. Cromolyn sodium, albuterol sulfate, and formoterol fumarate microspheres were prepared by a spray-drying method. Particle size and morphol. were determined via electron microscopy. Particle aggregation and suspension creaming times were assessed visually, and aerosol performance was determined via Andersen cascade impaction and dose uniformity studies. Results. The hollow porous particle morphol. allows the propellant to permeate freely within the particles creating a novel form of suspension termed a homo-dispersion, wherein the dispersed and continuous phases are identical, separated by an insol. interfacial layer of drug and excipient. Homodispersion formation improves suspension stability by minimizing the difference in d. between the particles and the medium, and by reducing attractive forces between particles. The improved phys. stability leads to excellent dose uniformity. Excellent aerosolization efficiencies are also observed with PulmoSpheres formulations, with fine particle fractions of about 70%. Conclusions. The formation of hollow porous particles provides a new formulation technol. for stabilizing suspensions of drugs in hydrofluoroalkane propellants with improved phys. stability, content uniformity, and aerosolization efficiency.

ACCESSION NUMBER: 2000:207980 CAPLUS
DOCUMENT NUMBER: 133:22339
TITLE: Hollow porous particles in metered dose inhalers
AUTHOR(S): Dellamary, Luis A.; Tarara, Thomas E.; Smith, Dan J.; Woelk, Christopher H.; Adractas, Anastasios; Costello, Michael L.; Gill, Howard; Weers, Jeffry G.
CORPORATE SOURCE: Alliance Pharmaceutical Corp., San Diego, CA, 92121, USA
SOURCE: Pharmaceutical Research (2000), 17(2), 168-174
CODEN: PHREEB; ISSN: 0724-8741
PUBLISHER: Kluwer Academic/Plenum Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

PALM INTRANET

Day : Monday
Date: 1/22/2007

Time: 19:22:58

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	First Name	
Weers	Jeffry	Search

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Day : Monday
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Last Name	First Name	
Schutt	Ernest	Search

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Day : Monday
Date: 1/22/2007

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Inventor Name Search

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Last Name	**First Name**	
Dellamary	Luis	Search

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Tarara	Thomas	Search

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Last Name	First Name	
Kabalnov	Alexey	Search

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Term: 5192528.pn.

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Generate: ○ **Hit List** ◉ **Hit Count** ○ **Side by Side** ○ **Image**

Search | Clear | Interrupt

Search History

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